

## ATom - DC-8 04/29/18 Science Report

**Aircraft:** [DC-8 - AFRC](#) ([See full schedule](#))

**Date:** Sunday, April 29, 2018

**Mission:** ATom

**Mission Location:** Anchorage, AK to Kona, HI

**Mission Summary:**

ATom-4 SF#3 Science Report: Flight from Anchorage, AK to Kona, HI

**Submitted by:** Erin Czech on 05/05/18

**File:**

 [ATom4\\_RF03\\_PrathersLog.pdf](#)

**Related Flight Report:**

### DC-8 04/29/18 - 04/30/18

**Flight Number:** 1256

**Payload Configuration:** ATom-4 configuration - AMP, AO2, ARMAS, ATHOS, CANOE, CAFS, CAPS, CIT-CIMS, DLH, DLH-X, GT-C, HR-AMS, ISAF, Medusa, MMS, NOAA-CIMS, NOyO3, PALMS, PANTHER, PFP, Picarro, QCLS, SAGA, SOAP, SP2, TOGA, UCATS, WAS

**Nav Data Collected:** Yes

**Total Flight Time:** 8.1 hours

**Archive Data:** [20180429](#) (4 binary files; 84 archive (plain-text) files)

**Submitted by:** Timothy Moes on 04/30/18

**Flight Segments:**

<b>From:</b>	PANC - Anchorage International Airport	<b>To:</b>	PHKO - Kona International Airport
<b>Start:</b>	04/29/18 17:56 Z	<b>Finish:</b>	04/30/18 02:02 Z
<b>Flight Time:</b>	8.1 hours		
<b>Log Number:</b>	<a href="#">188004</a>	<b>PI:</b>	Steven Wofsy
<b>Funding Source:</b>	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	ATom-4 science flight RF03. Successfully completed a low approach over Cold Bat, AK and 4 planned vertical profile maneuvers over the Pacific Ocean. Accomplished a stacked flux maneuver at the bottom of the 4th vertical profile maneuver. The flux altitudes were 500 ft, 800 ft and 1200 ft above sea level. An MMS maneuver set was completed at 33,000 ft. Science instruments and the aircraft all did well.		

**Flight Hour Summary:**

	<b>188004</b>
<b>Flight Hours Approved in SOFRS</b>	122.2
<b>Total Used</b>	133.2
<b>Total Remaining</b>	-11

#### 188004 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">04/06/18</a>	1249	Check	3.6	3.6	118.6	
<a href="#">04/10/18 - 04/11/18</a>	1251	Check	5	8.6	113.6	
<a href="#">04/13/18 - 04/14/18</a>	1252	Check	7.9	16.5	105.7	
<a href="#">04/24/18 - 04/25/18</a>	1253	Science	9.5	26	96.2	

<a href="#">04/26/18</a>	1254	Check	2.1	28.1	94.1
<a href="#">04/27/18 - 04/28/18</a>	1255	Science	10.3	38.4	83.8
<a href="#">04/29/18 - 04/30/18</a>	1256	Science	8.1	46.5	75.7
<a href="#">05/01/18 - 05/02/18</a>	1257	Science	8.2	54.7	67.5
<a href="#">05/03/18 - 05/04/18</a>	1258	Science	7.9	62.6	59.6
<a href="#">05/06/18 - 05/07/18</a>	1259	Science	10.2	72.8	49.4
<a href="#">05/09/18</a>	1260	Science	10.7	83.5	38.7
<a href="#">05/12/18</a>	1261	Science	10	93.5	28.7
<a href="#">05/14/18</a>	1262	Science	9.4	102.9	19.3
<a href="#">05/17/18</a>	1263	Science	9.7	112.6	9.6
<a href="#">05/18/18</a>	1264	Science	3.2	115.8	6.4
<a href="#">05/19/18 - 05/20/18</a>	1265	Science	10.6	126.4	-4.2
<a href="#">05/21/18</a>	1266	Science	6.8	133.2	-11

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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NASA Official: Bruce A. Tagg

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